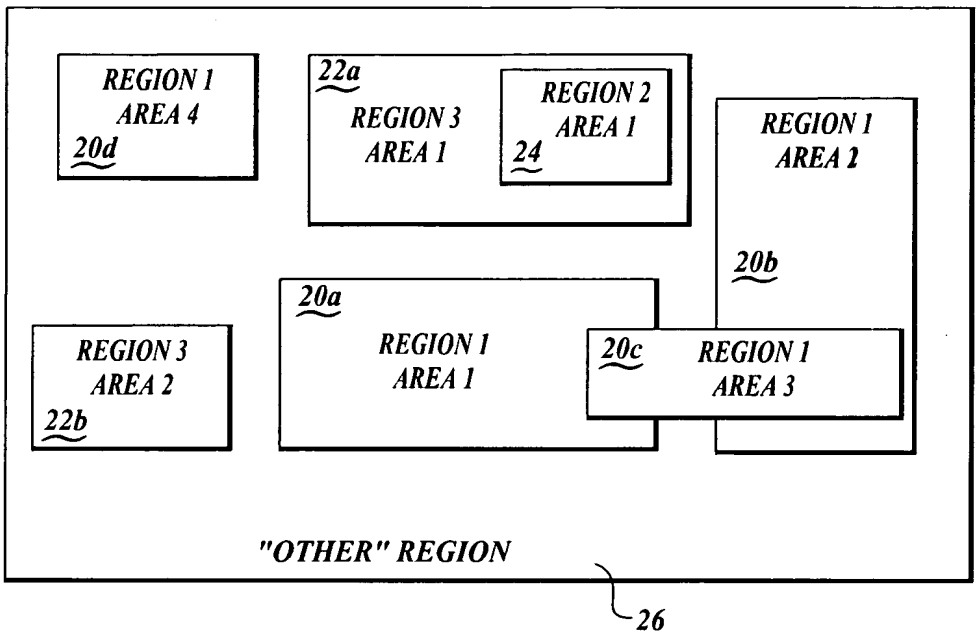

REGION 1
AREA 4
20d
22a
REGION 3
AREA 1
REGION 2
AREA 1
24
REGION 1
AREA 2
20b
20a
REGION 1
AREA 1
20c
REGION 1
AREA 3
REGION 3
AREA 2
22b
"OTHER" REGION
26

Fig. 1

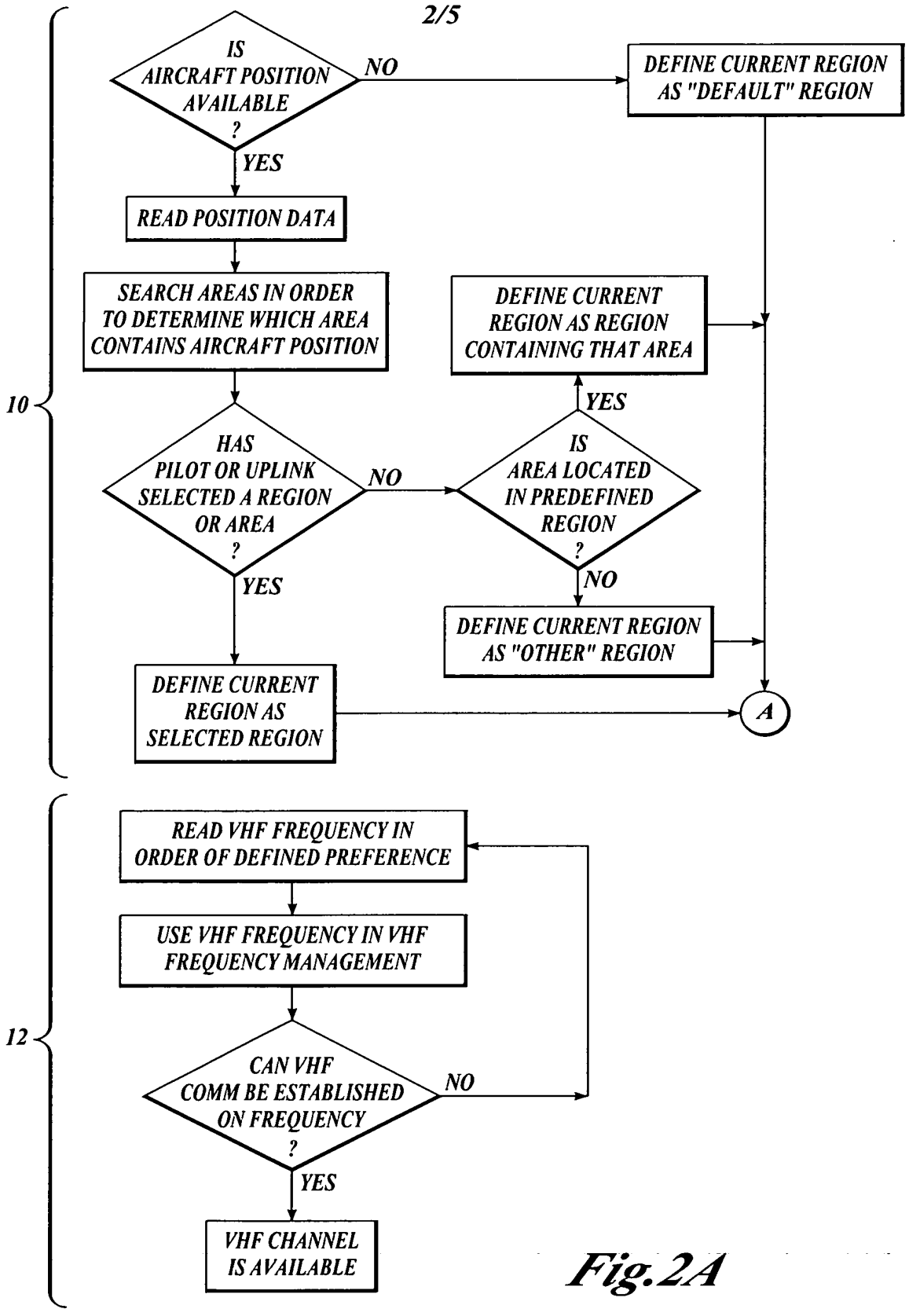

IS AIRCRAFT POSITION AVAILABLE ?
NO
DEFINE CURRENT REGION AS "DEFAULT" REGION
YES
READ POSITION DATA
SEARCH AREAS IN ORDER TO DETERMINE WHICH AREA CONTAINS AIRCRAFT POSITION
DEFINE CURRENT REGION AS REGION CONTAINING THAT AREA
YES
HAS PILOT OR UPLINK SELECTED A REGION OR AREA ?
NO
IS AREA LOCATED IN PREDEFINED REGION ?
YES
NO
DEFINE CURRENT REGION AS "OTHER" REGION
DEFINE CURRENT REGION AS SELECTED REGION
A
10
READ VHF FREQUENCY IN ORDER OF DEFINED PREFERENCE
USE VHF FREQUENCY IN VHF FREQUENCY MANAGEMENT
CAN VHF COMM BE ESTABLISHED ON FREQUENCY ?
NO
YES
VHF CHANNEL IS AVAILABLE
12

Fig.2A

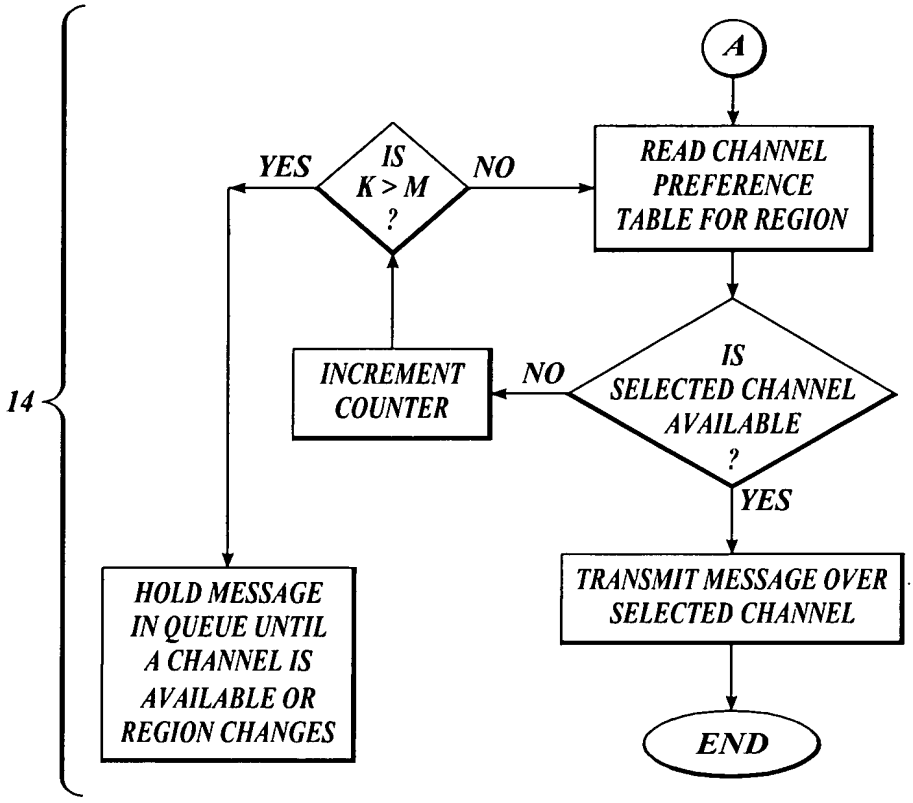

14
A
READ CHANNEL PREFERENCE TABLE FOR REGION
IS SELECTED CHANNEL AVAILABLE ?
NO
INCREMENT COUNTER
IS K > M ?
YES
NO
YES
TRANSMIT MESSAGE OVER SELECTED CHANNEL
HOLD MESSAGE IN QUEUE UNTIL A CHANNEL IS AVAILABLE OR REGION CHANGES
END

Fig.2B

DATA STRUCTURE LAYOUT FOR THE MESSAGE DEFINITION.

	0 7	8 15	16 23	24 31
00	BUFFER DEFINITION REFERENCE			
04	CRC OPTION	MSG. LIFETIME	DEST. CODE	MSG TYPE
08	MESSAGE ENCODED UDP REFERENCE			
0C	ENCRYPT OPT	ENCRYPT KEY	MSG LABEL0	MSG LABEL1
10	MESSAGE TIME UDP REFERENCE			
14	SPARE	PURPOSE CODE	SYSTEM RESET	BUFFER FULL
18	SPARE			
1C	ESTIMATED MSG SIZE		MSGPRIORITY	DL QUEUE ID
20	SPARE			
24	DOWNLINK ENCODING CONTROL REFERENCE			
28	# SUB RCDS	RESP. RQRD	SUBNET PREF	INV. PAD

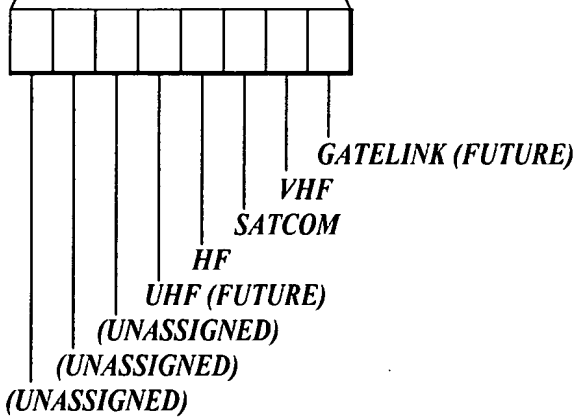
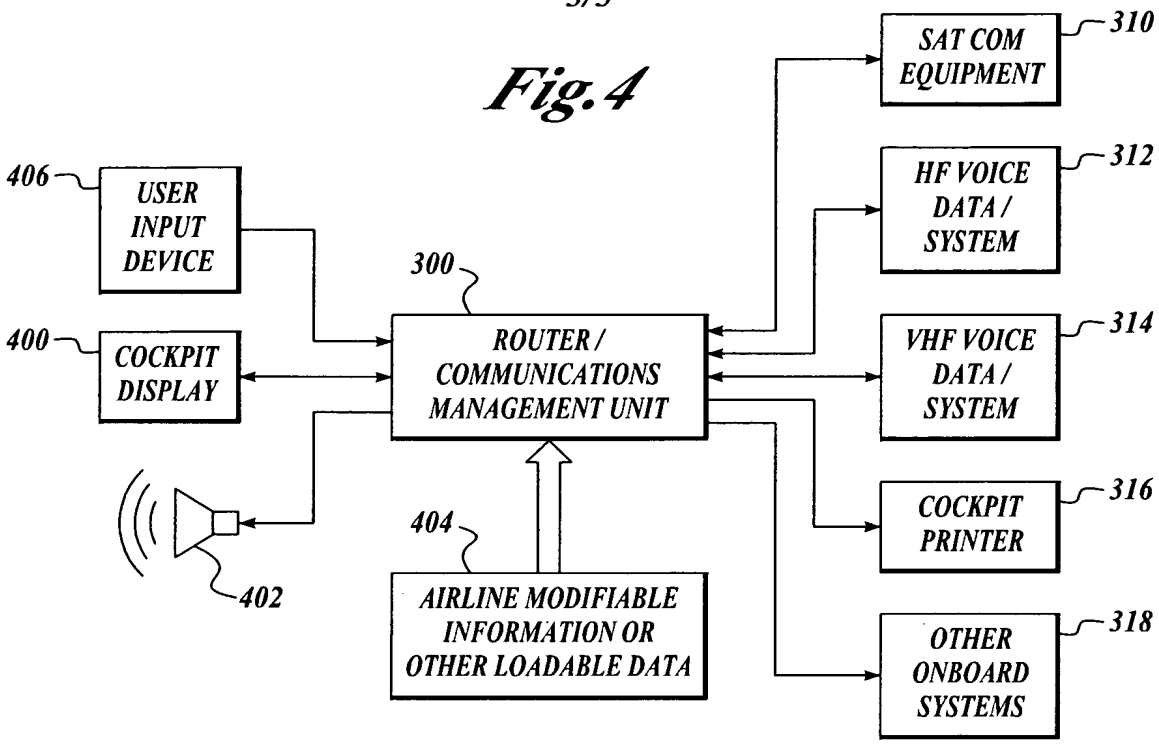


Fig.3

Fig. 4



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

	CMU	DATA COMM	1/2	
1L	*CONUS		N. PACIFIC*	1R
2L	*EUROPE		S. PACIFIC*	2R
3L	*AUSTRALIA < * >		N. ATLANTIC*	3R
4L	*AFRICA		S. ATLANTIC*	4R
5L	RETURN TO *AUTO		OTHER*	5R
6L	<RETURN		VHF FREQ>	6R

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

400

Fig. 5